

IN THE CLAIMS

Please cancel claims 1-20.

Please add new claim 21 as follows.

21. A method of determining a workable number of light emitting diodes directly coupled in series to an AC power source to provide a stable light source, said method comprising the following steps:

determining an RMS voltage rating (V_{RMS}) of said AC power source;

determining an AC voltage rating for a particular type of light emitting diodes by determining an average voltage drop (V_{avg}) across said particular type of light emitting diode when connected to said AC power source;

calculating said workable number (WN) of said light emitting diodes according to the following formula

$WN = V_{rms}/V_{avg}$; and

electrically interconnecting a plurality of said particular type of light emitting diodes equal to said workable number (WN) in series directly to said AC power source without any intermediate circuit altering devices.